

Table 1.

	Position	Sequence	Number of aa	Molecular weight	Isoelectric point
Peptide 1	1-33	VPKVTFTEKGSNEKHLAVLVKYEGLTMAEVELC	34	3765,02	4.87
Peptide 3	65-96	REHGSDEWVAMTKGEGGVWTFDSEELQGPFC	33	3696,8	4.03
Peptide 2	34-64	CFRFLTEKGMKNVFDVVPEKYTIGATYAPEE	32	3698,91	4.45

2/12

Table 2.

Induction of immediate skin reactions with Phl p 2 and Phl p 2 mosaic

Individual 1		
	mean wheal diameter (mm)	
	P2	P2M
1 µg/ml	9	0
2 µg/ml	10	0
4 µg/ml	11	0
8 µg/ml	14	5
16 µg/ml	10	4
Timothy grass	15	
Histamine	8	

Individual 2		
	mean wheal diameter (mm)	
	P2	P2M
1 µg/ml	5	0
2 µg/ml	5	0
4 µg/ml	6	0
8 µg/ml	7	0
16 µg/ml	9	3
Timothy grass	10	
Histamine	8	

3/12

Table 3.

Rabbit anti P2 mosaic and rabbit anti-rPhl p 2 antibodies
inhibit IgE binding of grass pollen allergic patients to rPhl p 2

% inhibition		
Patient	anti-P2M	anti-rPhl p 2
1	39.54	76.93
2	9.25	63.97
3	23.20	52.91
4	14.38	40.86
5	18.27	38.97
Mean	20.93	54.73

4/12

Figure 1.

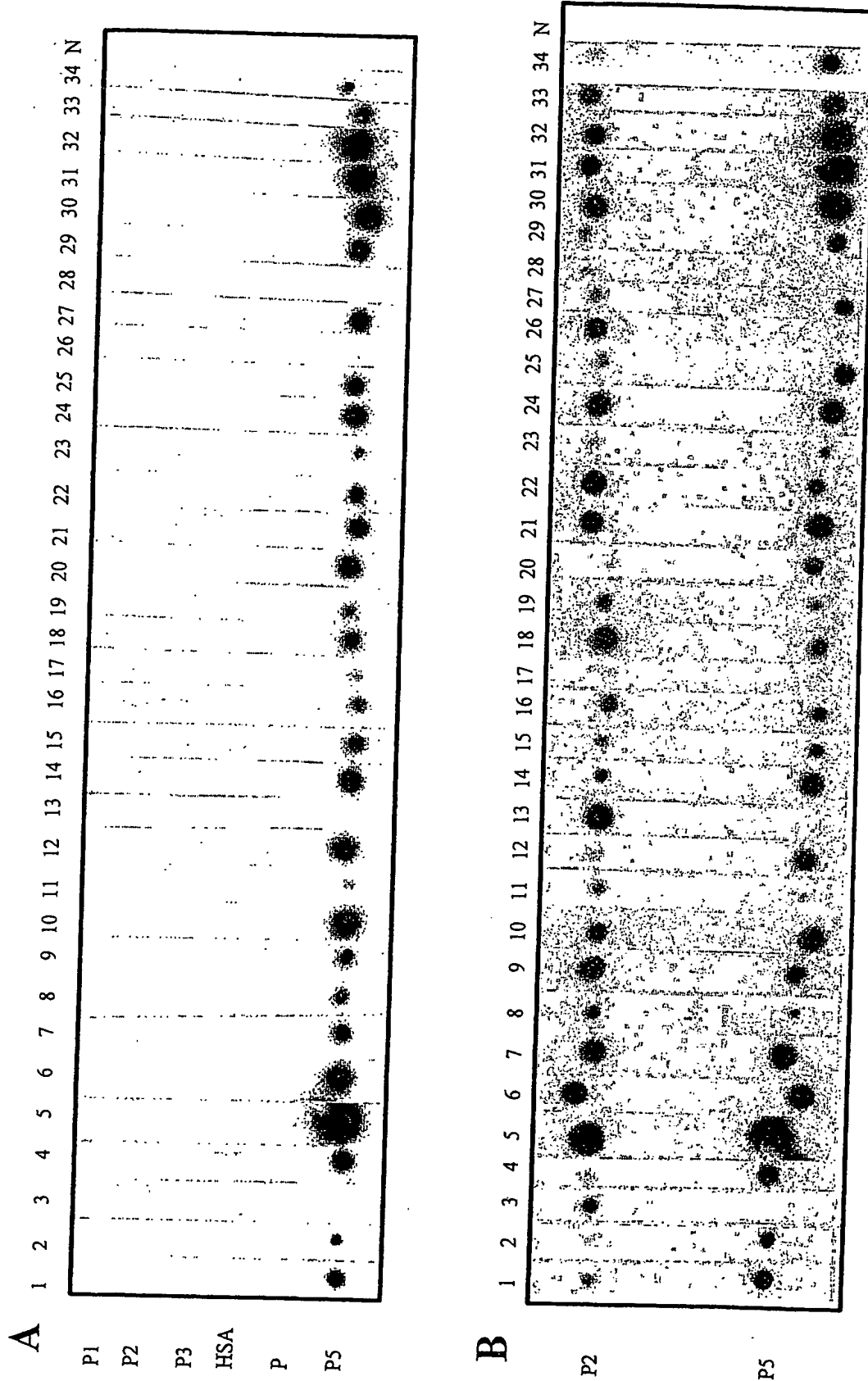
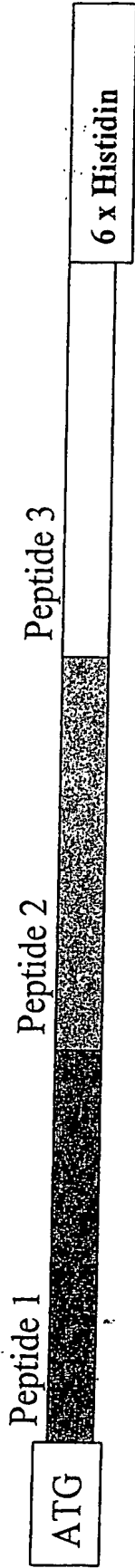


Figure 2.

P 2



P 2 mosaic

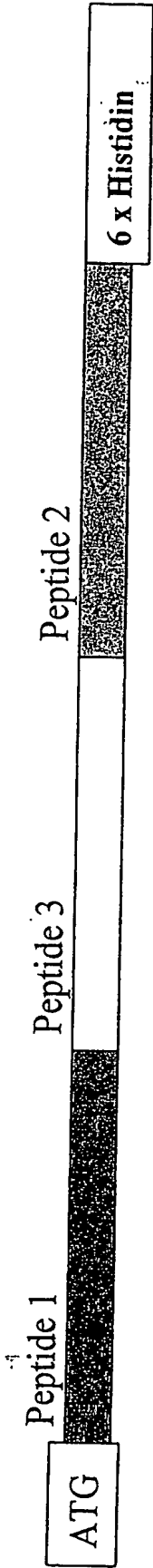


Figure 3.

SEQ ID NO:

6	P2/1:	5' - GGA TTT CCA TAT GGT CCC GAA GGT GAC GTT CAC G - 3'
7	P2/2:	5' - GGT GAG GAA CCG GAA GAG CTC CAC CTC CGC CAT GGT - 3'
8	P2/3:	5' - GCG GAG GTG GAG CTC TTC CGG TTC CTC ACC GAG AAG - 3'
9	P2/4:	5' - GGA GCC GTG CTC CCG CTC TTC TGG CGC GTA GGT GGC - 3'
10	P2/5:	5' - TAC GCG CCA GAA GAG CGG GAG CAC GGC TCC GAC GAG - 3'
11	P2/6:	5' - CGC GAA TTC TCA GTG GTG GTG GTG GTG GTT GAA GGG CCC CTG GAG CGG - 3'

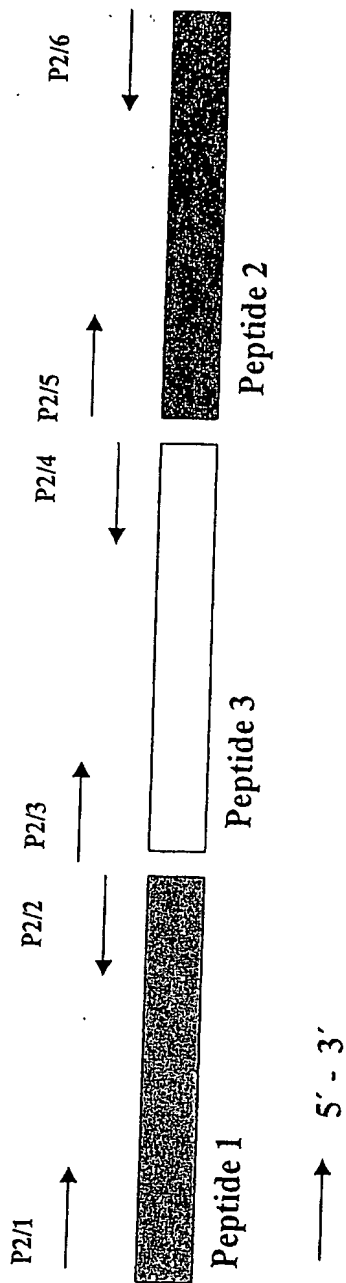


Figure 4.

P2M-Sequence

ATG GTC CCG AAG GTG ACG TTC ACG GTG GAG AAG GGG TCC AAC GAG AAG CAC 51
 M V P K V T F T V E K G S N E K H 17

 CTG GCG GTG CTG GTG AAG TAC GAG GGG GAC ACC ATG GCG GAG GTG GAG CTC 102
 L A V L V K Y E G D T M A E V E L 34

 TTC CCG TTC CTC ACC GAG AAG GGC ATG AAG AAC GTC TTC GAC GAC GTC GTC 153
 F R F L T E K G M K N V F D D V V 51

 CCA GAG AAG TAC ACC ATT GGG GCC ACC TAC GCG CCA GAA GAG CGG GAG CAC 204
 P E K Y T I G A T Y A P E E R E H 68

 GGC TCC GAC GAG TGG GTC GCC ATG ACC AAG GGG GAG GGC GGC GTG TGG ACG 255
 G S D E W V A M T K G E G G V W T 85

 TTC GAC AGC GAG GAG CCG CTC CAG GGG CCC TTC AAC CAC CAC CAC CAC CAC 306
 F D S E E P L Q G P F N H H H H H 102

 CAC 309
 H 103

8/12

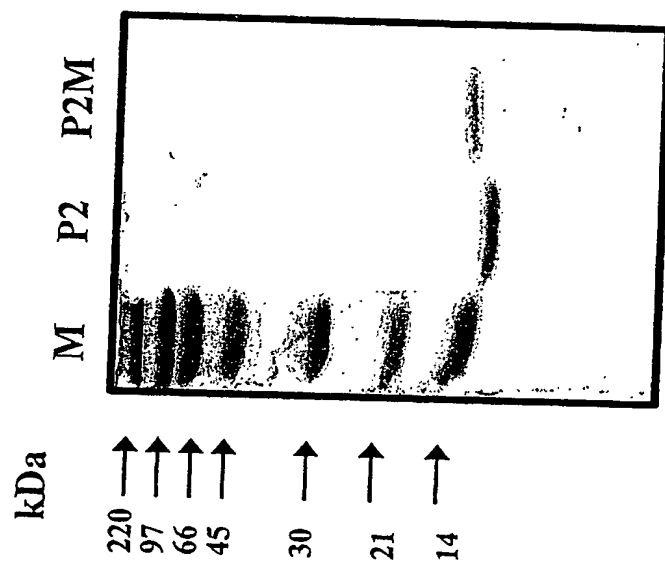


Figure 5.

9/12

Figure 6

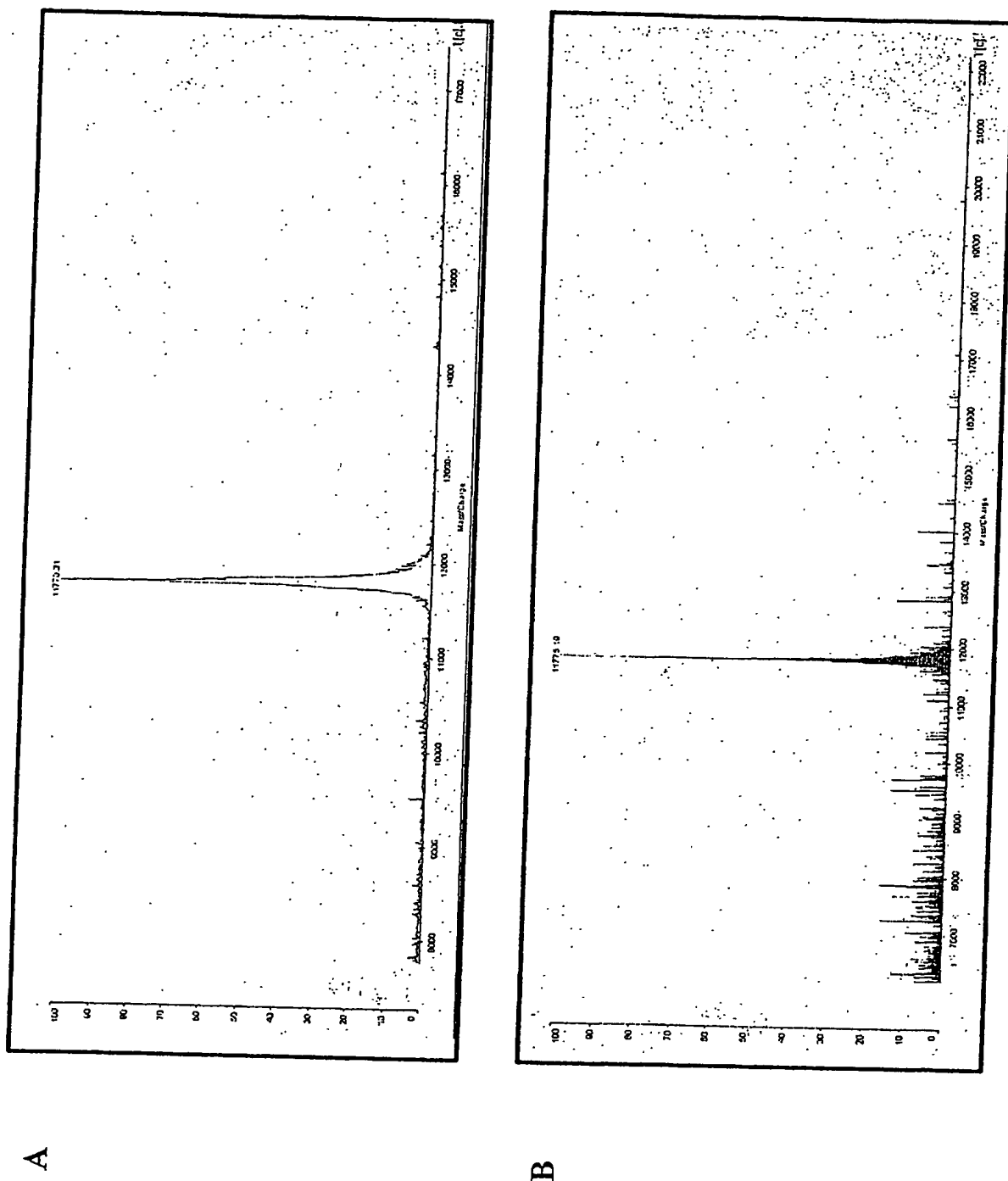
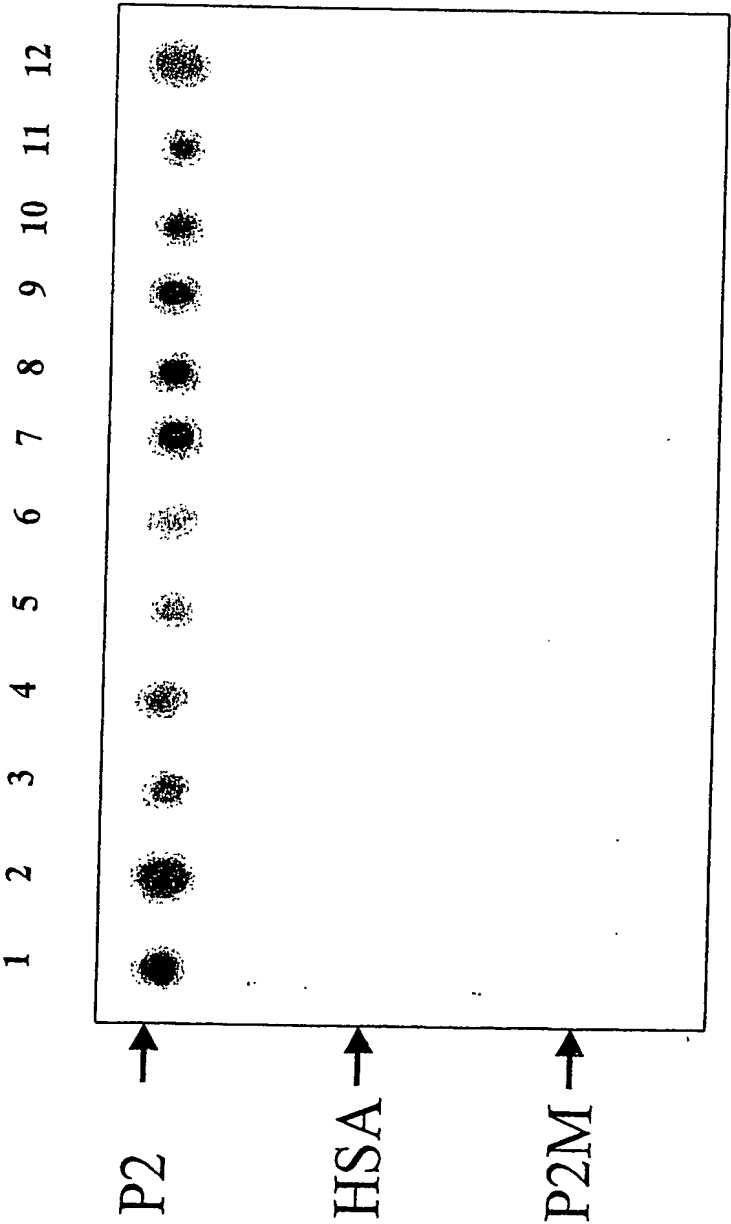


Figure 7.



11/12

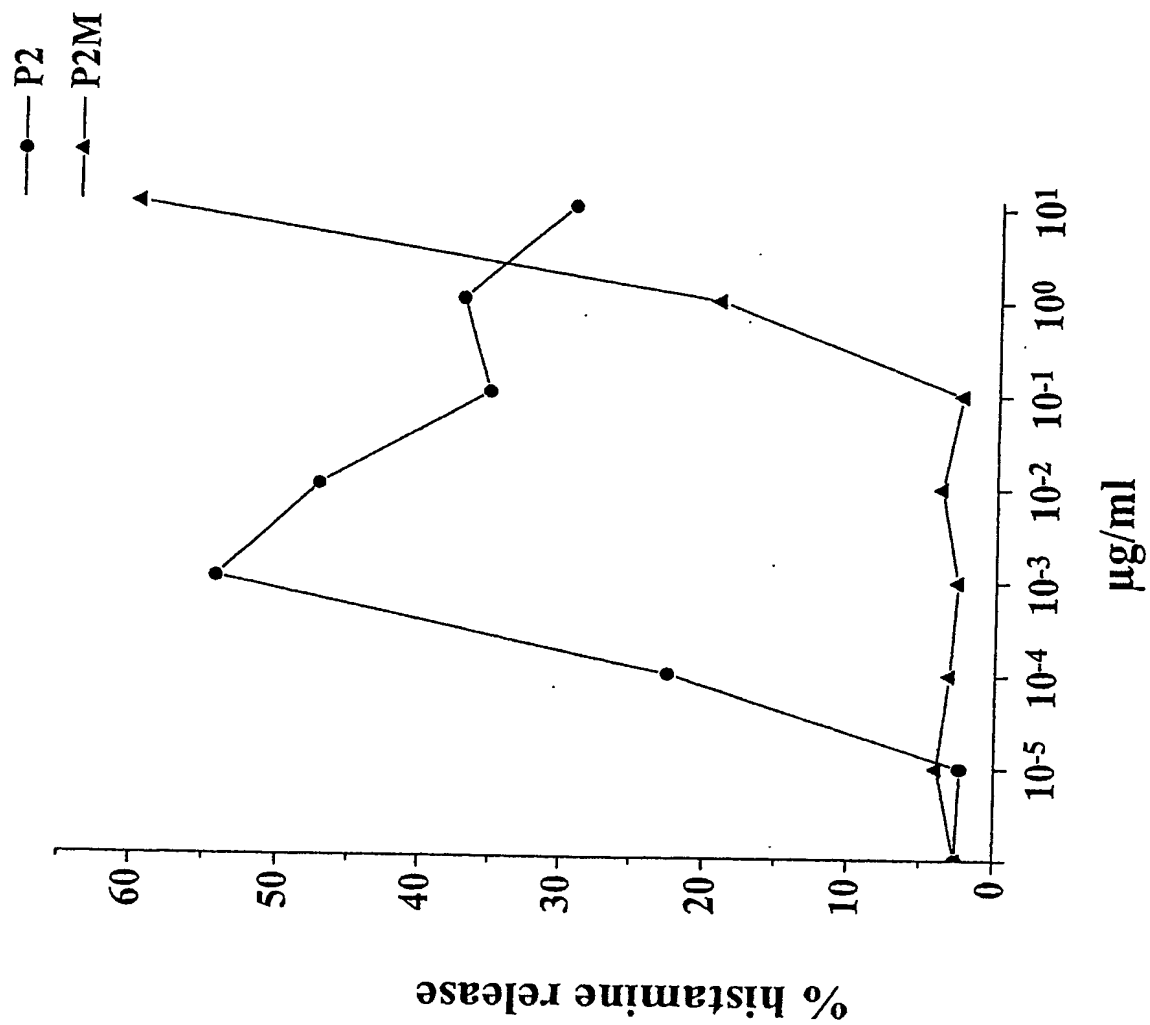


Figure 8.

12/12

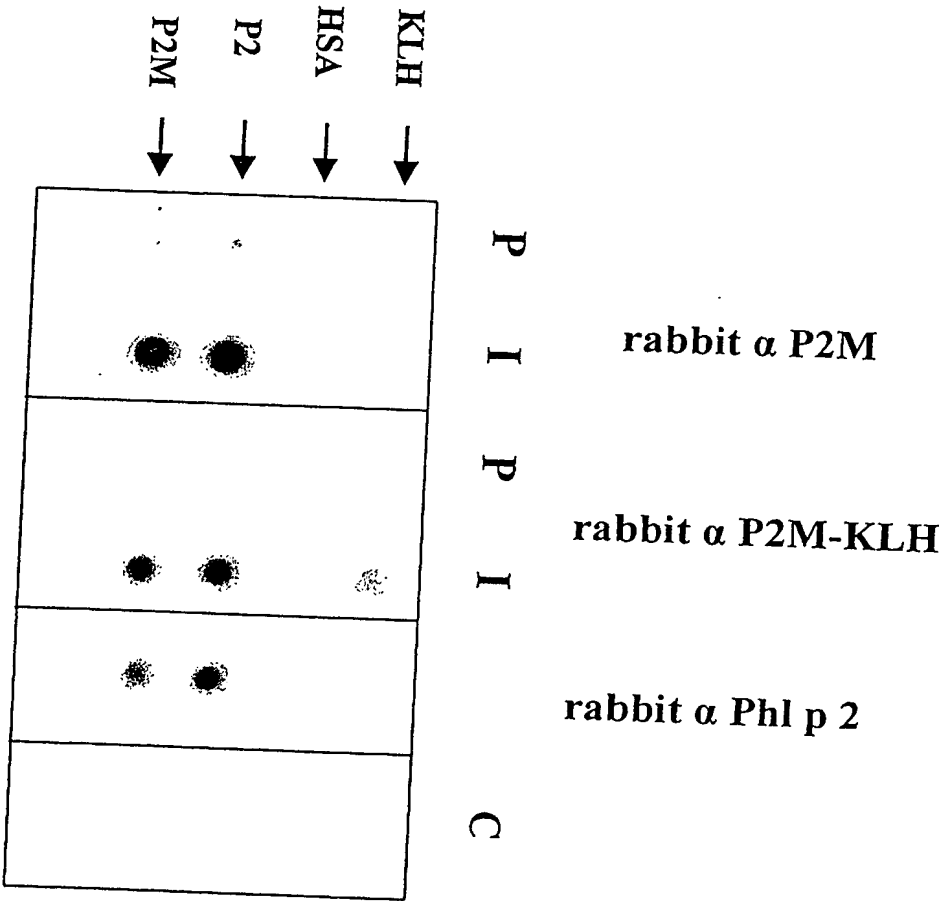


Figure 9.